

**SAFETY SUPPLEMENT**

## TECHNICAL MANUAL

**AEROSPACE EMERGENCY RESCUE  
AND MISHAP RESPONSE INFORMATION  
(EMERGENCY SERVICES)**

THIS PUBLICATION SUPPLEMENTS TO 00-105E-9 REVISION 10, DATED 1 MAY 2005, LOCATED AT WEB SITE:  
<http://www.robins.af.mil/logistics/LGEDA/Documents/to00-105e-9.htm>.

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**COMMANDERS ARE RESPONSIBLE FOR BRINGING THIS SUPPLEMENT  
TO THE ATTENTION OF ALL AFFECTED AIR FORCE PERSONNEL.**

PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

**9 August 2005****1. PURPOSE.**

This supplement provides instructions for update of TO 00-105E-9 Revision 10, dated 1 May 2005, affecting Chapter 11, Trainer Aircraft. This supplement is an updated file for the latest information regarding the T-1A aircraft affecting several procedures on 6 pages. These pages have been added or edited in the file. A vertical bar in the margin denotes the changes.

**2. INSTRUCTIONS.**

- a. This information, formatted in PDF, can be downloaded and printed from this web site by the end user. Use the most current Adobe Reader for this function, available free from [Adobe.com](http://Adobe.com).
- b. This supplement to Chapter 11 updates information based on newly researched source data information regarding this aircraft. The new file update should be added to Chapter 11 in TO 00-105E-9 Revision 10. The end user should save this file and print the affected pages, if applicable to the user's operation. File a copy of this Safety Supplement with the main Technical Order according to current regulations.

**NOTE**

This information should also be included in mobility boxes where applicable. If your unit or a part of your unit is serving elsewhere, they should be informed of this Safety Supplement and how to obtain it. See TO 00-5-1 for Local Reproduction of TOs and Digital Media guidance.

THE END

## AIRCRAFT PAINT SCHEME

T-1A

T.O. 00-105E-9



# AIRCRAFT DIMENSIONS

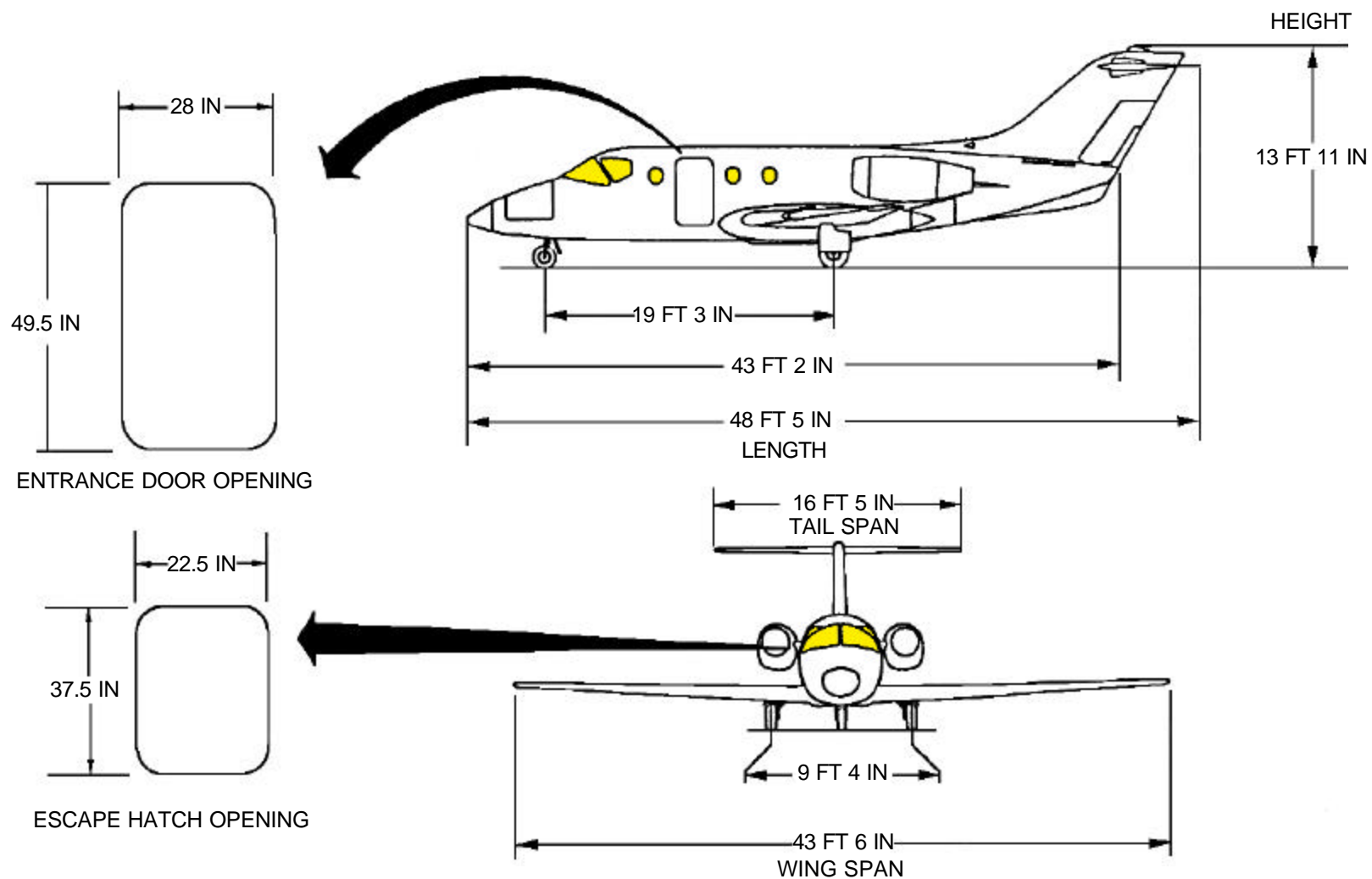
T-1A

## INTERIOR AREAS

LENGTH 223 Inches

WIDTH 60 Inches

HEIGHT 57 Inches

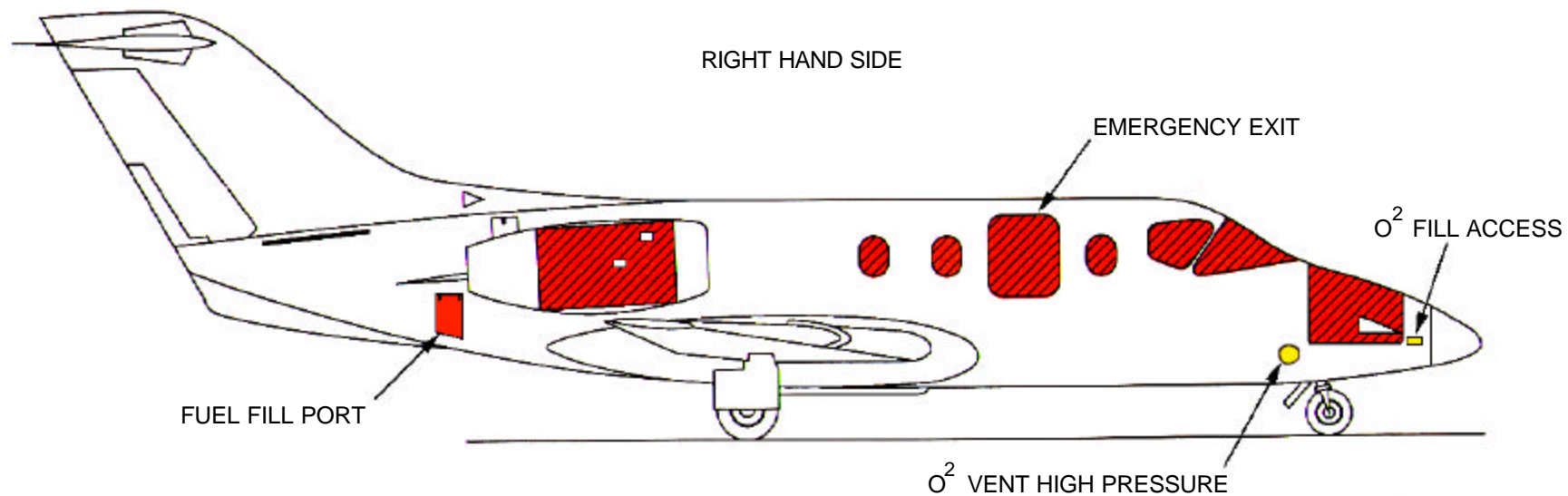




## AIRCRAFT SKIN PENETRATION POINTS, FIRE ACCESS, AND SERVICING LOCATIONS

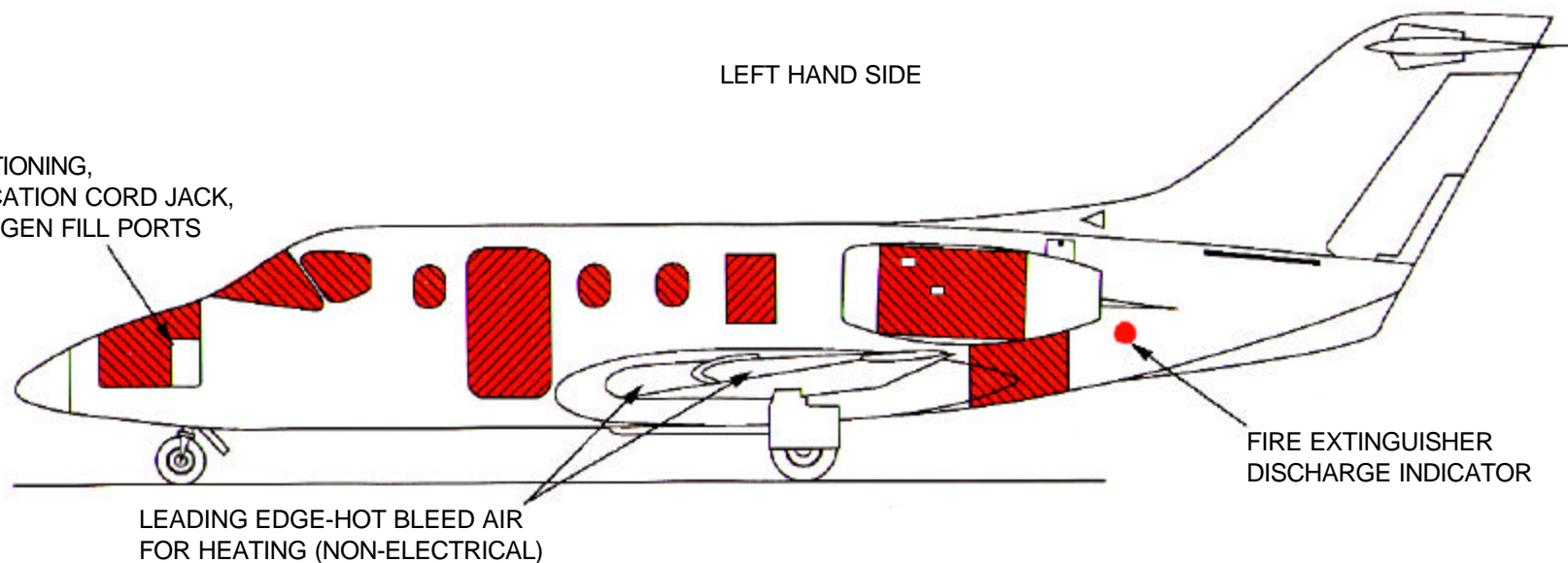
T-1A

RIGHT HAND SIDE



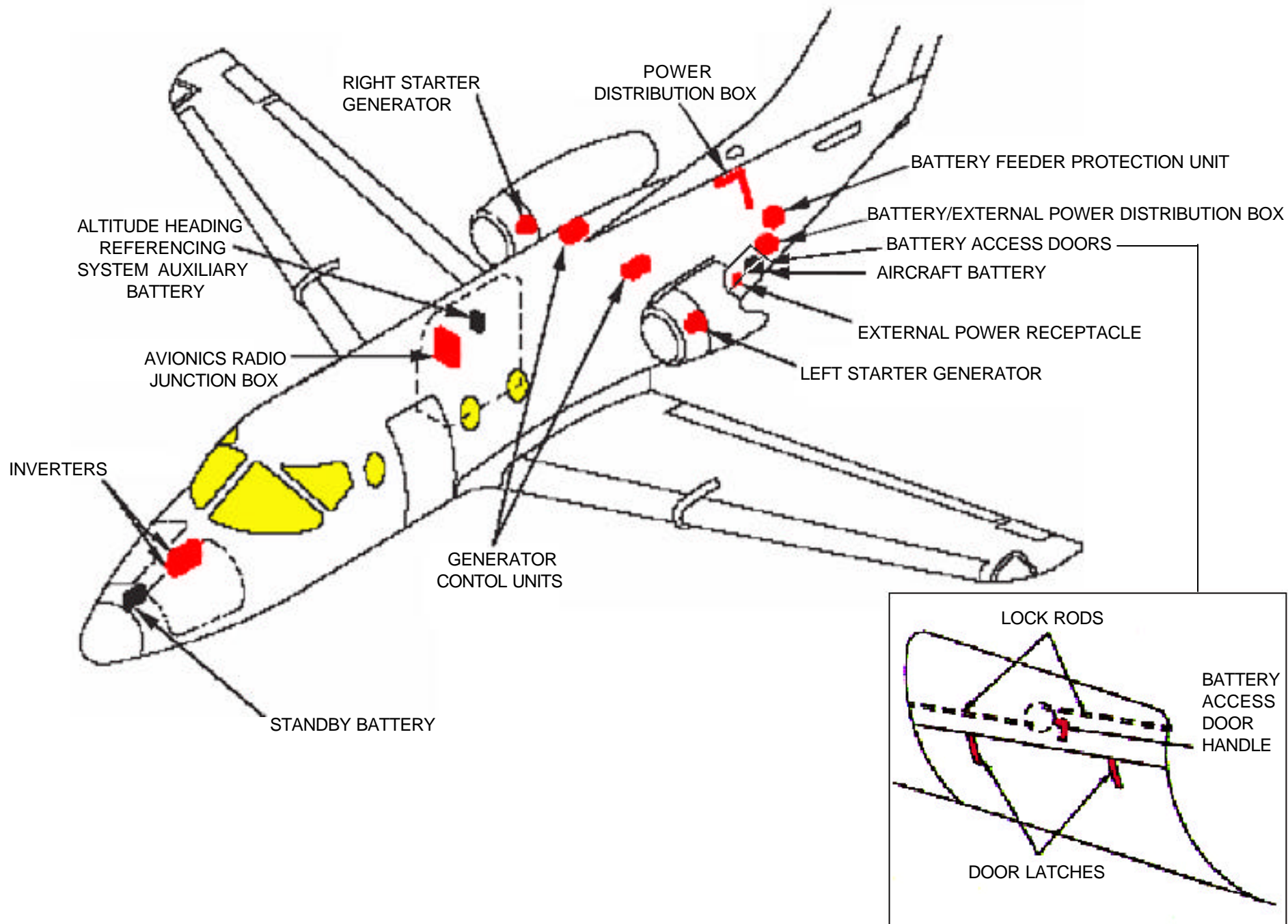
LEFT HAND SIDE

AIR CONDITIONING,  
COMMUNICATION CORD JACK,  
AND NITROGEN FILL PORTS



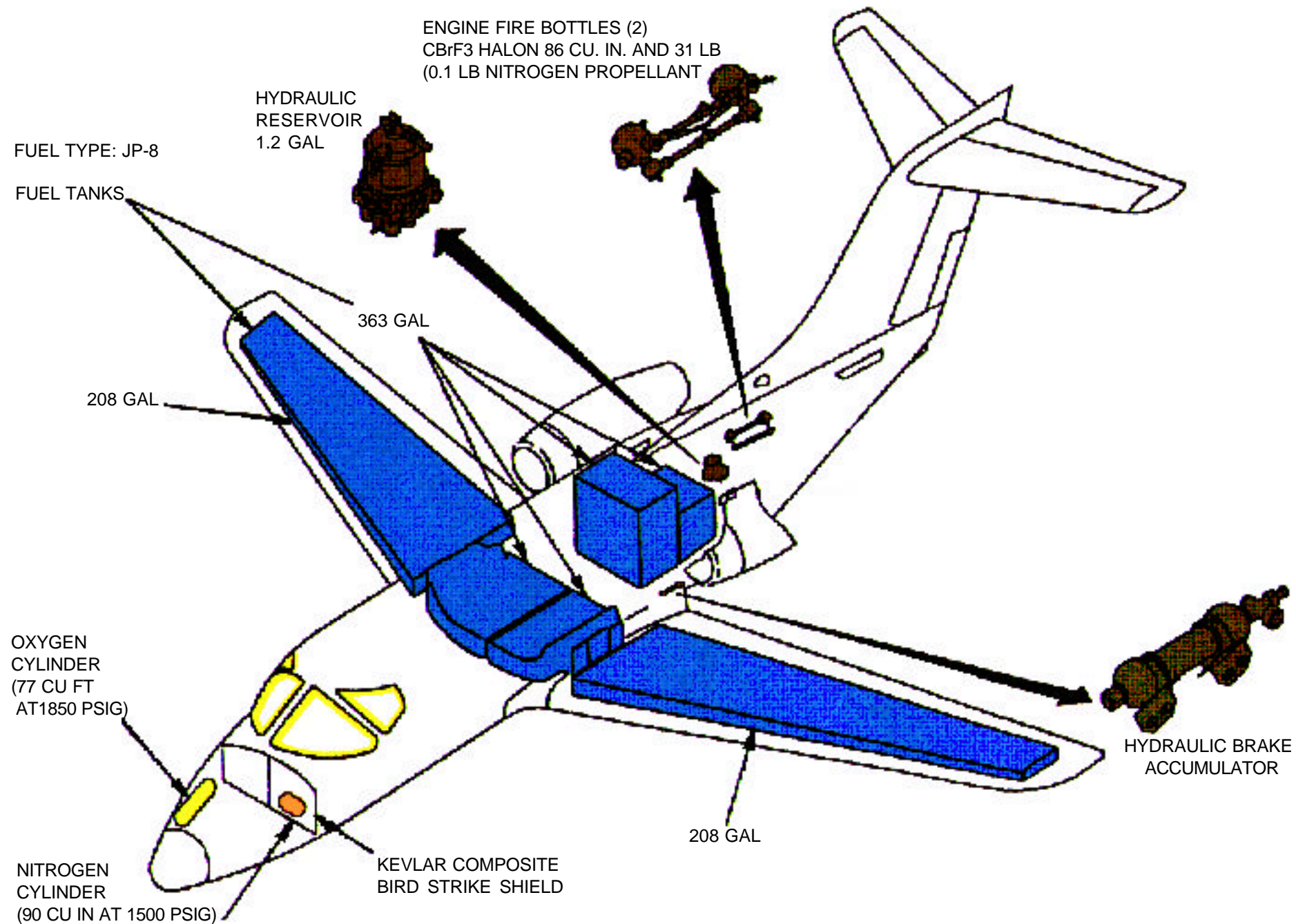
# POWER SYSTEMS AND COMPONENT LOCATIONS

T-1A



# FUEL, HYDRAULIC, OXYGEN, NITROGEN AND FIRE BOTTLE LOCATIONS

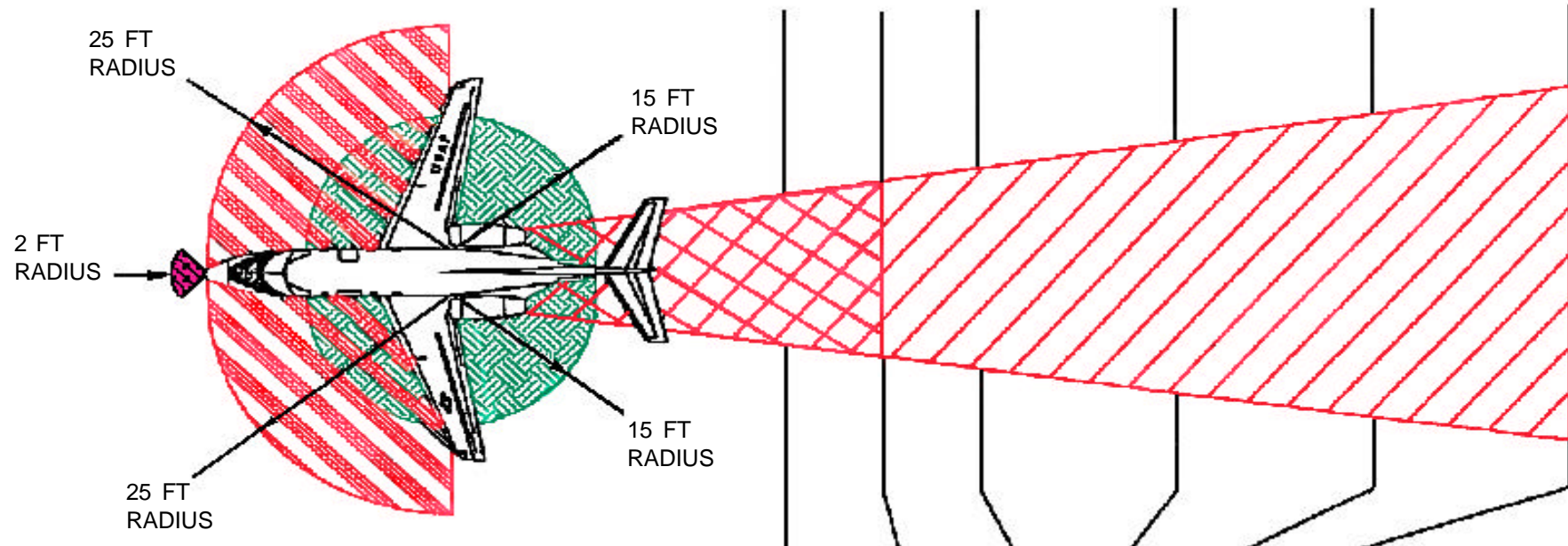
T-1A



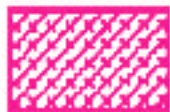


# DANGER AND HAZARD AREAS

T-1A



	DISTANCE FT.	0	20	30	40	60	80	100
IDLE THRUST	TEMPERATURE °F	650 <sup>0</sup>	141 <sup>0</sup>	91 <sup>0</sup>				
	VELOCITY KNOTS	300	59	31				
TAKEOFF RATED THRUST	TEMPERATURE °F	1000 <sup>0</sup>	250 <sup>0</sup>	200 <sup>0</sup>	160 <sup>0</sup>	140 <sup>0</sup>	130 <sup>0</sup>	120 <sup>0</sup>
	VELOCITY KNOTS	600	295	190	140	80	55	40



RADAR  
DANGER  
AREA



TAKEOFF  
RATED  
INTAKE



MAIN LANDING  
GEAR TIRE  
AVOIDANCE



TAKEOFF RATED  
THRUST  
EXHAUST



IDLE  
THRUST  
EXHAUST

## SPECIAL TOOLS/EQUIPMENT

Power Rescue Saw  
Fire Drill II

T-1A

## AIRCRAFT ENTRY

## 1. NORMAL ENTRY (EXTERNAL ONLY)

- a. Push release button, located beside main entrance door handle to release cabin pressure.
- b. Push left side of door handle to expose handle.
- c. Turn door handle one quarter turn clockwise to unlock main entrance door and pull door outward.
- d. Grasp step assembly or chord and pull outward.
- e. When steps start downward movement, support steps and lower to extended position.

## 2. EMERGENCY ENTRY (EXTERNAL ONLY)

- a. Push release lock, located right side fuselage front of wing.
- b. Pull handle to unlock escape hatch.

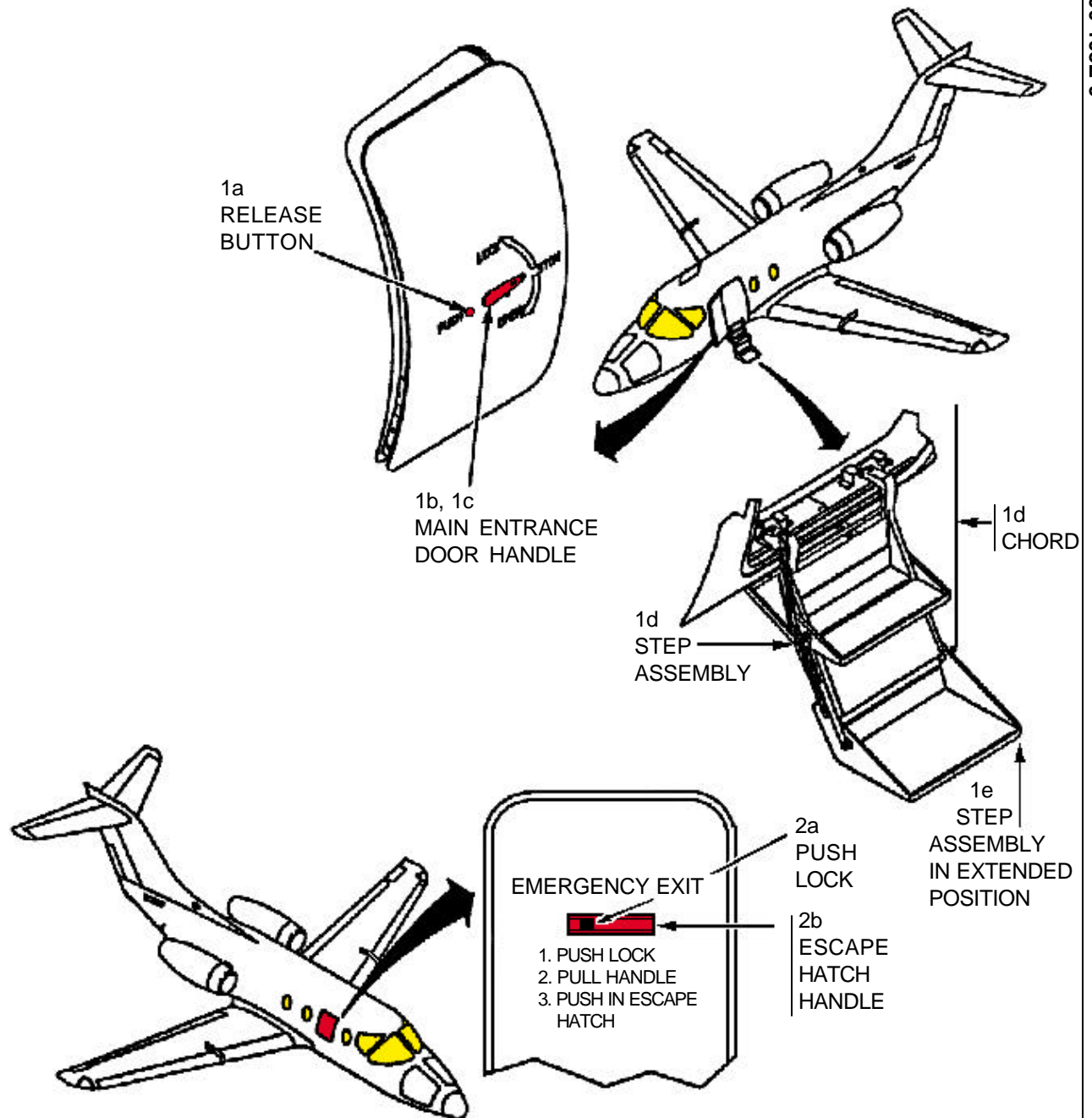
## CAUTION

Do not place hatch in the pathway of escape.

- c. Push escape hatch inward to gain entry.

## 3. CUT-IN

- a. Cut-in normal and emergency entrances. If entrances are jammed, cut around fuselage windows.

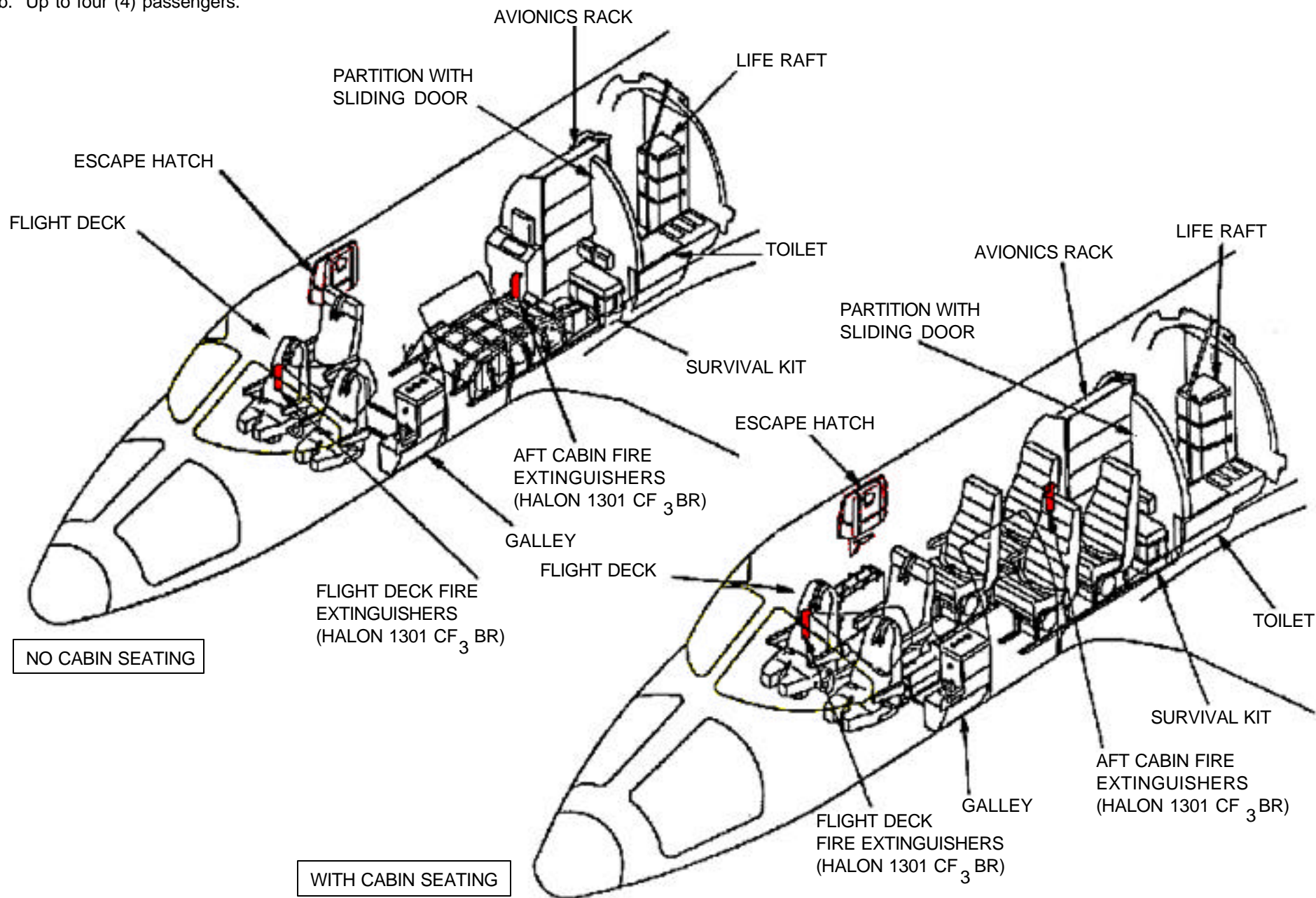




# CABIN ARRANGEMENTS

T-1A

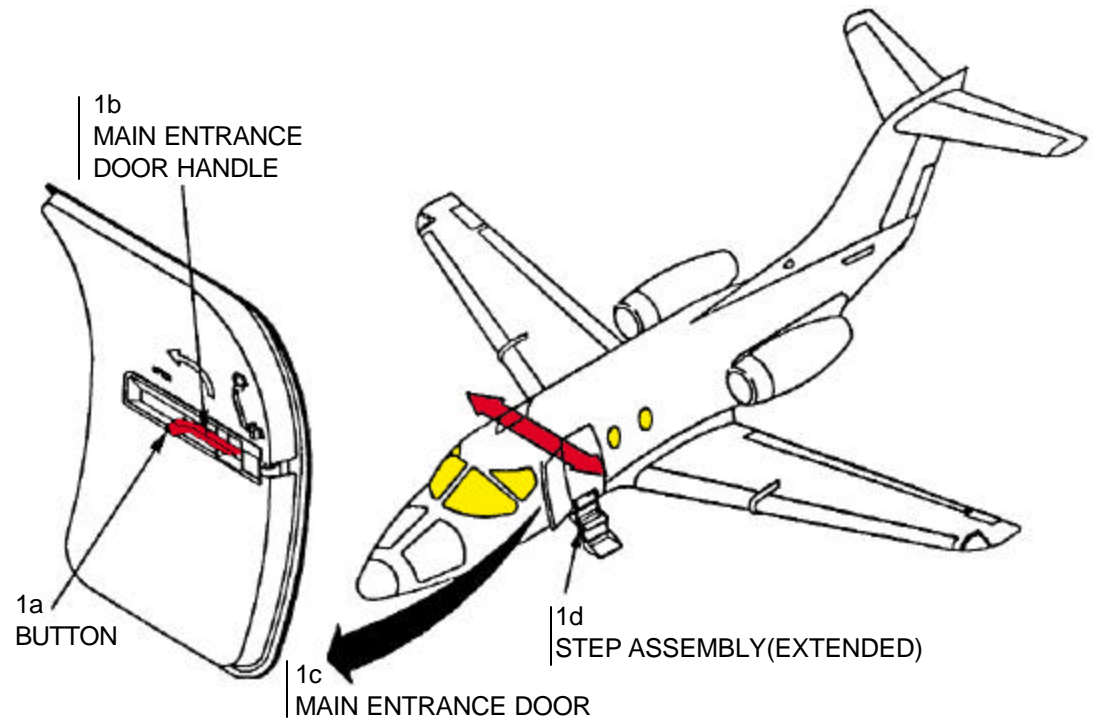
1. NORMAL CAPACITY
  - a. Three (3) crewmembers.
  - b. Up to four (4) passengers.



# AIRCRAFT EXIT

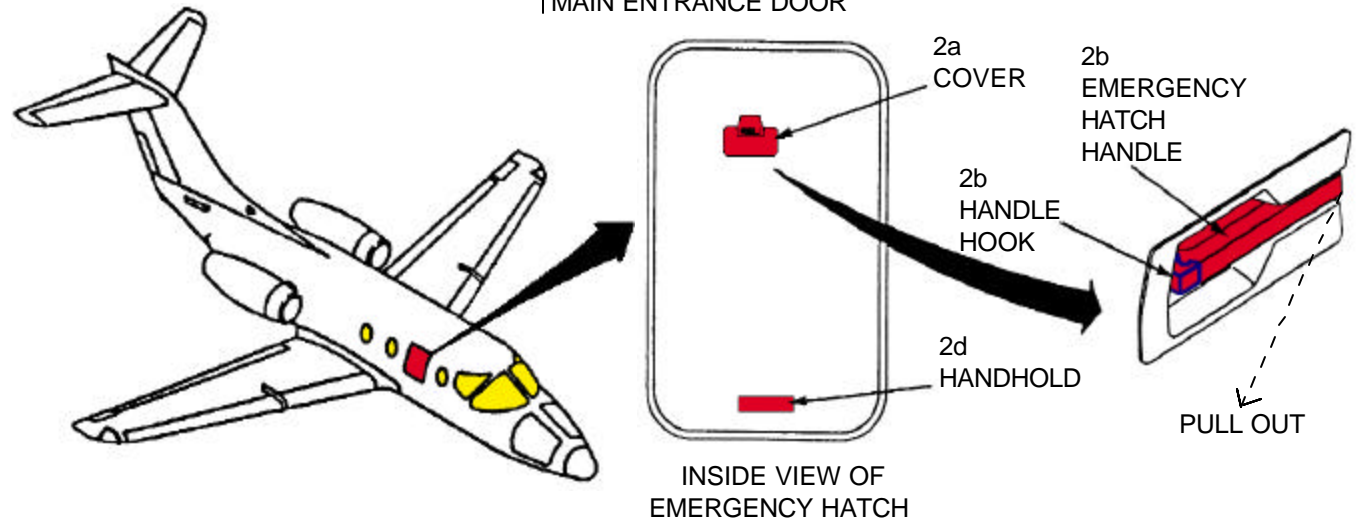
## 1. NORMAL EXIT (INTERNAL ONLY)

- Push button, located on door handle of the main entrance door, to release door handle.
- Turn door handle, located on main entrance door, counterclockwise to unlock door.
- Push door outward.
- Push step assembly outward.
- Support steps and lower to extended position.



## 2. EMERGENCY EXIT (INTERNAL ONLY)

- Pull cover free. Cover is located on upper center portion of the emergency hatch.
- Push handle hook, located under cover, with thumb and pull handle.
- Lift top of emergency hatch to extend into aircraft.
- Lift emergency hatch using handhold, located on lower center portion of the emergency hatch, to clear hinges.
- Remove emergency hatch to an area that will not impede egress.



# ENGINE SHUTDOWN

## 1. ENGINE SHUTDOWN

- Raise two finger lifts, located below throttle knobs on center console.
- Retard throttle levers, located on center console, to aft/down to the CUT OFF position.

### NOTE:

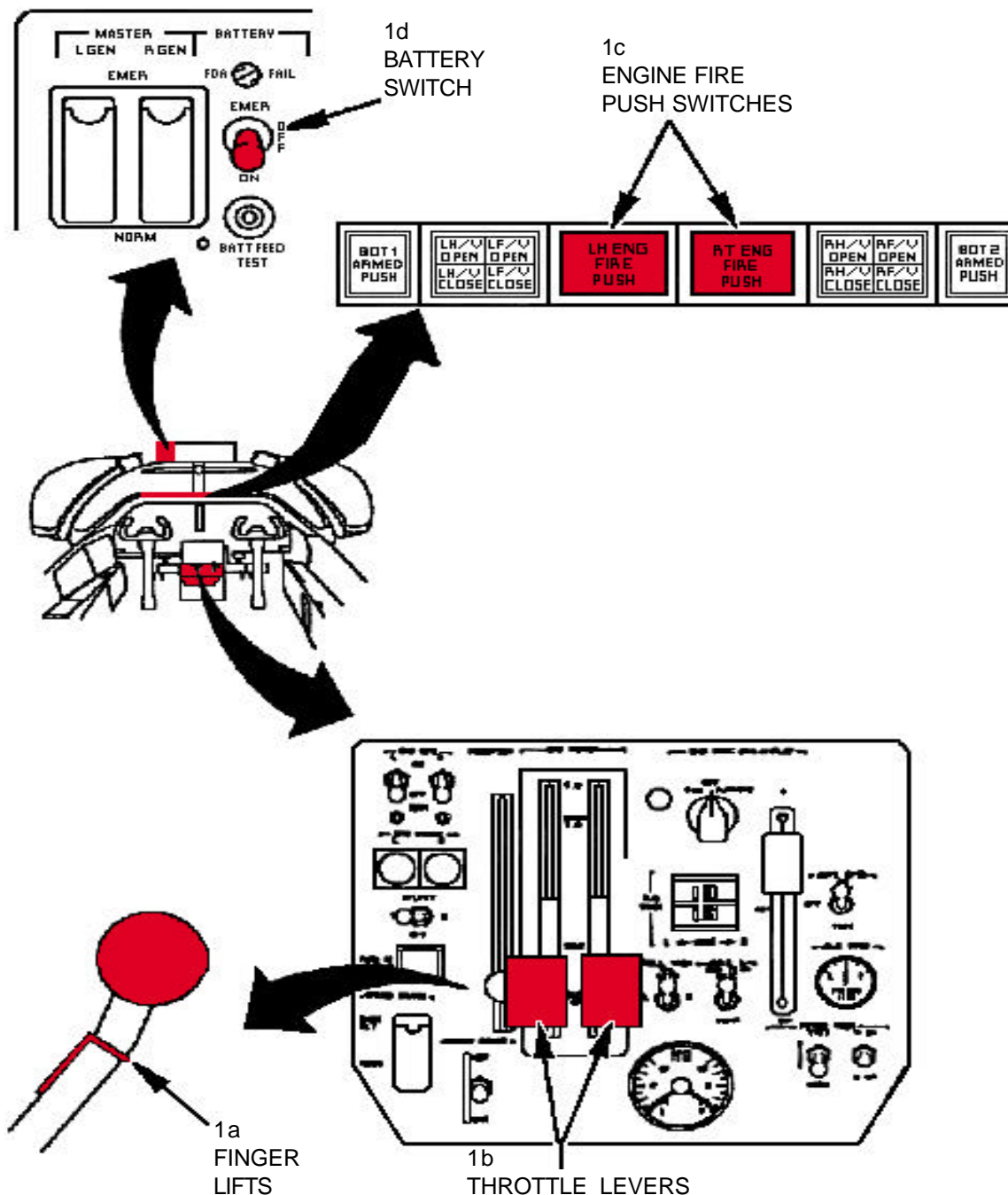
If engines are to be shutdown using the ENG FIRE PUSH switches, located top center of shroud panel, the battery switch must be ON or extinguishment system can not be activated.

- If engines fail to shutdown, raise the protective covers then push both ENG FIRE PUSH switches, located top center of the shroud panel, to activate fire extinguisher agent.
- Place battery switch to OFF position, located on overhead console upper left side.

### NOTE:

If the standby battery serves as a backup battery to the main battery.

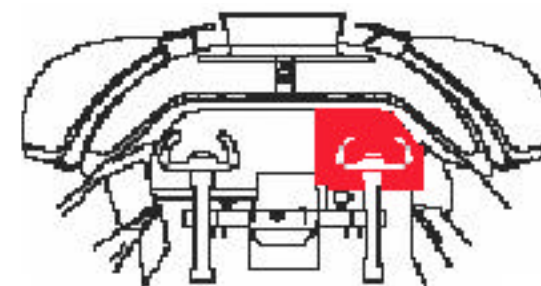
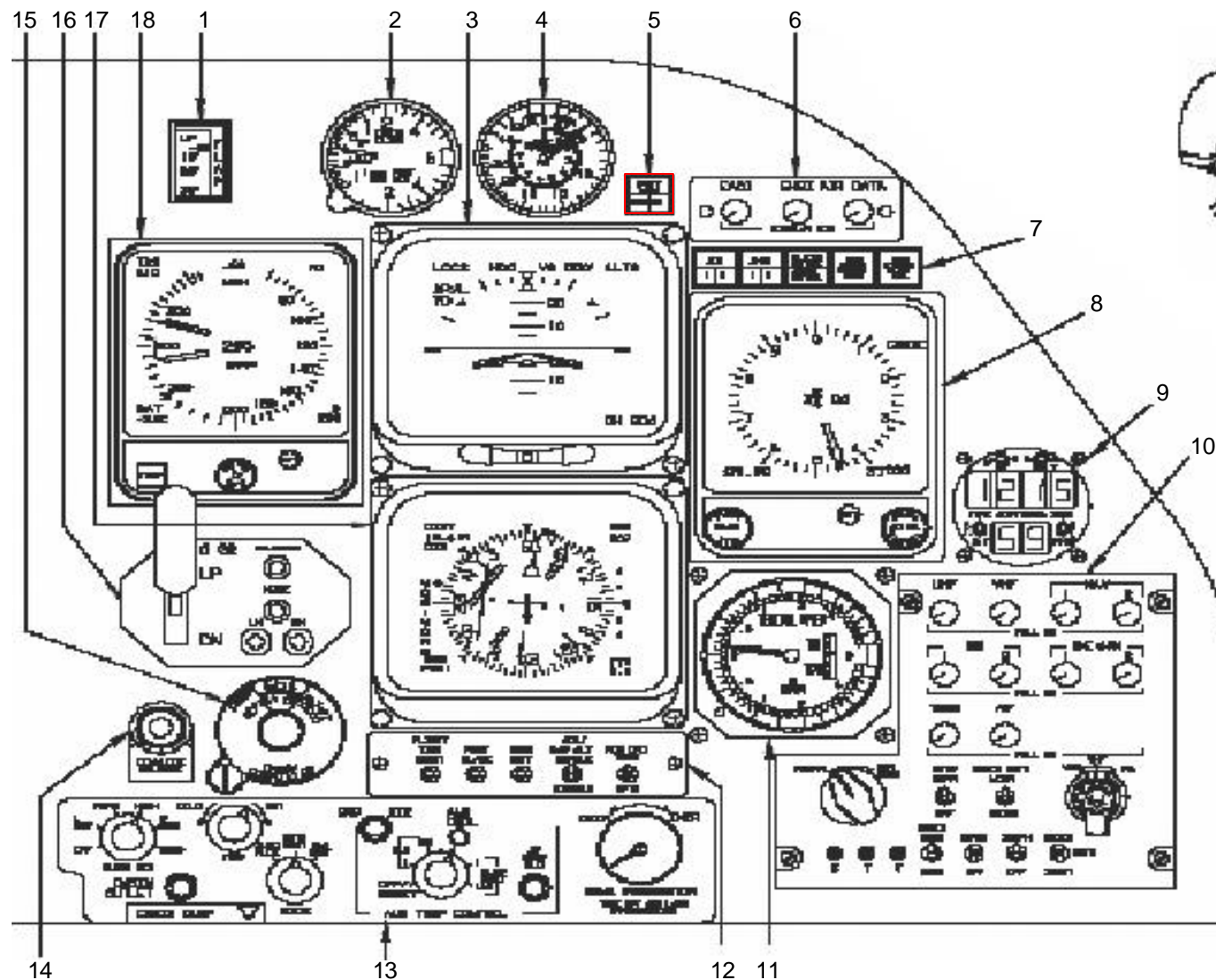
- Push standby battery pack switch to the OFF position, located on the forward instrument panel. (See item 5 on page T-1A.11 on co-pilot's flight instrument panel.)





## ENGINE SHUTDOWN-Continued

T-1A

CO-PILOT'S FLIGHT  
INSTRUMENT PANEL  
(TYPICAL)

1. FLAP POSITION INDICATOR
2. CABIN RATE-OF-CLIMB INDICATOR
3. ELECTRONIC ATTITUDE DIRECTOR INDICATOR
4. CABIN PRESSURE DIFFERENTIAL INDICATOR
5. STAND BY BATTERY PACK SWITCH LIGHT
6. EFIS/AIR DATA DIMMING PANEL
7. CO-PILOT'S INSTRUMENT PANEL ANNUNCIATORS

8. ALTIMETER
9. DIGITAL CLOCK
10. CO-PILOT'S AUDIO CONTROL PANEL
11. RA/VSI INDICATOR
12. CO-PILOT'S SWITCH PANEL
13. ENVIRONMENTAL CONTROL PANEL
14. LANDING GEAR HANDLE DOWNLOCK RELEASE

15. PRESSURIZATION CONTROLLER
16. LANDING GEAR CONTROL UNIT
17. ELECTRONIC HORIZONTAL SITUATION INDICATOR
18. MACH/AIRSPEED INDICATOR

# AIRCREW EXTRACTION

## 1. AIRCREW EXTRACTION

### NOTE:

Jump seat, located behind pilot's seats, may block access to the pilot's seats. Inertia reel control handle can be cycled to move or stabilize occupant prior to extraction. Move forward to lock, aft to unlock.

- a. If jump seat is occupied, release occupant from restraint system by turning buckle release knob a quarter turn in either direction.
- b. Position jump seat's left armrest up to facilitate removal then remove and extract occupant.
- c. Release jump seat by pulling lever on forward seat bottom.
- d. Remove and stow jump seat on right side of cabin.
- e. For pilot seats, release five point restraint system by turning the buckle release knob a quarter turn in either direction.
- f. Raise applicable armrest to facilitate removal then remove and extract pilots.

## 2. PASSENGER EXTRACTION

- a. Release lap belt by raising buckle catch.

